



## Wired Audio Intercom System for speech and music transmission

### The Concept

The Axxent Audio Intercom System provides highly intelligible speech and music transmission, even at long cable runs. Typical applications are in halls, arenas, theatres, congress centres, concert events etc. The system provides ease of setup and operation. No special cables are required. In addition to a flashing light alert, a switchable piezzo buzzer makes the user aware of calls, even in noisy environments. The system may easily be expanded via link bus if it becomes necessary.

### The Components

The system components are widely compatible to all commercial systems on the market using three pin XLR connectors. No special cabling is necessary. The complementary components are listed below.

### Features

- ⇒ flexible concept with one and two channel main stations (MS 100 and MS 200)
- ⇒ main station feeds up to 14 belt packs
- ⇒ 1 U (44.1 mm) only, 19"
- ⇒ light and sound alert
- ⇒ line and microphone input
- ⇒ excellent intelligibility and sound quality
- ⇒ all industry standard headphone/mic combinations having dynamic microphone capsules can be used
- ⇒ standard 3 conductor, 3 pin XLR cables to be used



**CP 100**

*Communications loudspeaker station*



**BP 100**

*portable one channel intercom-station (Belt-Pack)*



*Headsets with different configurations*

*large signal light for high visibility*

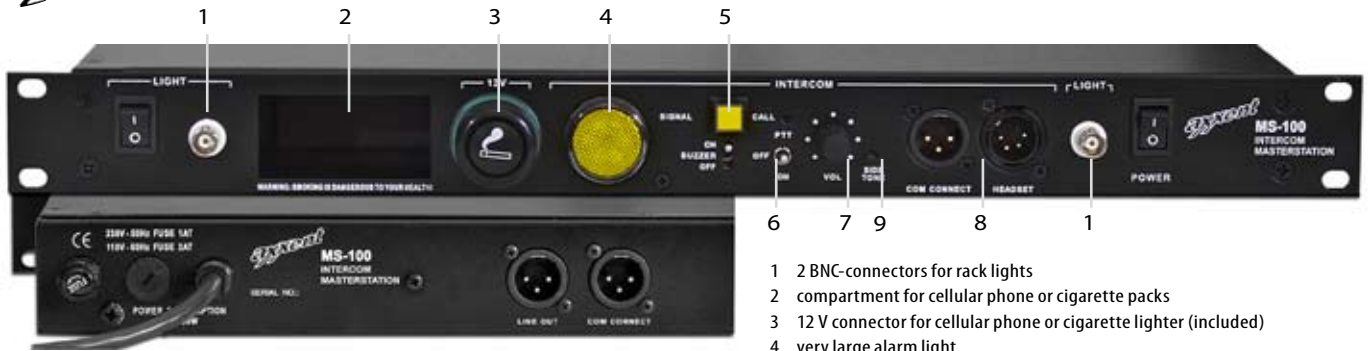


*as model LP 100, but with red LEDs*



**LP 100**

**NEW: LP 100 LED**



- 1 2 BNC-connectors for rack lights
- 2 compartment for cellular phone or cigarette packs
- 3 12 V connector for cellular phone or cigarette lighter (included)
- 4 very large alarm light
- 5 call button with buzzer on/off switch
- 6 switching mode: PTT, permanent ON, OFF
- 7 volume adjust for audio signal
- 8 XLR connectors (communication + headset)
- 9 Side Tone (mic volume / noise suppression)

## MS 100

One channel intercom master station

The MS 100 master station provides one intercom channel with high quality audio signal transmission. The power supply of the master station feeds up to 14 belt packs. Sound and light alerts are standard features. All important connectors and controls are located on the front of the unit, such as headset plug, XLR connector for belt packs and XLR line output. All other functions and important data are identical to the two channel unit MS 200 and belt pack BP 100.

## SPECIFICATIONS

frequency response ..... 20 Hz to 20 kHz  
 signal to noise ratio .....  $\geq 85$  dB  
 connectors ..... 3 and 4 pin XLR  
 power supply ..... 230/120 V AC, switchable  
 power consumption ..... max. 50 W  
 case ..... steel with black finish  
 dimensions (W x H x D) ..... 482 x 44 x 155 mm  
 net weight ..... 3.2 kg



- 1 input for headset (4 pin XLR)
- 2 head phone volume
- 3 mic volume / noise suppression
- 4 switching mode: PTT, permanent ON, OFF
- 5 mic switch: CH A or B, or A + B
- 6 call: audio alert on/off
- 7 switches for light alert, separate for channel A + B
- 8 mic/line input (3 pin XLR)
- 9 input level
- 10 line output with channel selection (e.g. calling)
- 11 line input with channel switch
- 12/13 outputs for belt pack or additional main stations

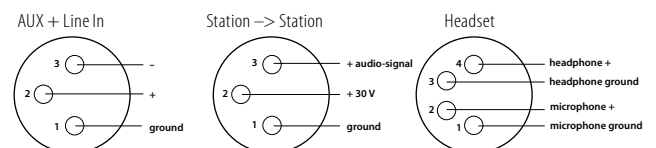
## MS 200

Two channel intercom master station

The main station MS 200 provides two separate channels for audio intercom. The basic features and data are identical to the model MS 100 and the belt pack model BP 100.

## SPECIFICATIONS

frequency response ..... 20 Hz to 20 kHz  
 signal to noise ratio .....  $\geq 85$  dB  
 crosstalk between channels .....  $\geq 65$  dB  
 connectors ..... 3 and 4 pin XLR  
 power supply ..... 230/120 V AC, switchable  
 power consumption ..... max. 50 W  
 case ..... steel with black finish  
 dimensions (W x H x D) ..... 482 x 44 x 200 mm  
 net weight ..... 3.1 kg



3 and 4 pin XLR connectors



## CP 100 COM-PAC

Loudspeaker station (may also be used as a half 19" main station) for one channel. Front panel: photo above. Rear with intercom connectors in and out and RJ11 connector for power supply (photo right).



The COM-PAC speaker station CP 100 provides all necessary and important intercom functions and connectors in a compact housing of just 1 U high. The speaker can be switched off, to allow operation as a main station.

The unit may be freely positioned or it can be rack- or wall mounted with optional mounting hardware. When using the CP 100 as a speaker station, power will be supplied by a master station, either MS 100 or MS 200.

When used as a small station an optional external power supply may be used. Here are the two options:

1. With the RS1 power supply, up to four belt packs can be operated with the CP 100 (rear RJ11 receptacle).
2. Power supply axxent PS 100, connecting directly into the intercom cables. The PS 100 powers up to six stations. (description on page 4).

## CP 100 Mounting Accessories

allow for easy and flexible mounting of the COM-PAC unit



wall mount kit WMK 100



CP 100 wall mount



rack mount kit RMK 100



rack mount kit RMK 100





### PS 100 Power supply

This power supply allows the operation of belt packs BP 100, BP 100 V, signal lights LP 100 and LP 100 LED and the CP 100 loudspeaker station – all without the necessity of 19" main stations.

Since more digital mixing consoles are used, less side racks are used and therefore this type of a power supply is an ideal compact solution. Up to 6 intercom belt packs are powered by the PS100. The unit features two party line intercom outputs with XLR male connectors, an interchangeable fuse and a voltage selector switch with 120/230 VAC.



### BP 100 Belt Pack

*portable one channel intercom station*



The belt pack BP 100 is a portable 1 channel intercom station for connection to a main station MS 200. The integrated spring steel clip allows for easy fixing the unit to clothes. All controls on the front side of the unit are identical to those on the main station. On the rear of the unit all XLR connectors are easily accessible (left on photo the 4 pin XLR connector for the headset and on the right the 3 pin XLRs for signal loop-through to the next station). The side tone is adjustable. Nearly all features are identical to those on the main station. The BP 100 features light and sound alarm. The sound alarm is switchable.



*Scheme of a typical system setup with interconnections*



### BP 100V Belt Pack with Vibro Alarm Modul

The Model BP 100V with its basic features is almost identical to the BP 100. In addition, it features a connection for an external vibration alarm module (only 5 x 4 x 2 cm). The connection cable has a length of 80 cm and is equipped with a mini phone plug. The "Vibro Alarm" comes in handy, when the light alarm is not recognized by any reason. The BP 100V is compatible to other common Partyline intercom systems. The BP 100V does not feature a sound alarm.

## Headsets – Microphone/Headphone Combinations

These four headset models have been especially designed for intercom applications. Selection of the right model pretty much depends on the application project and the system specifications.

The headsets are made of rugged PE plastic material. All models have been developed with the correct acoustical and electrical insulation between microphone and head phone in mind. Hereby the usual crosstalk problems normally associated with multi channel intercom systems could be minimized. Special ear cushions provide the acoustical insulation without degrading the comfort, even at longer sessions and high environmental noise levels.

The balanced microphone provides a precise cardioid pattern and a highly effective windscreen.



model D 900 E



model D 900



model D 800



model D 800 E

## How do the headset series D 800 and D 900 compare?

### D 800 (E)

- extremely robust
- optimized for high intelligibility
- high sound pressure capability
- budget price

### D 900 (E)

- studio sound quality
- easy to wear, even for long sessions
- microphone arm left or right
- microphone is automatically off in the upper position (micro switch)

\* models with suffix ("E") are equipped with one ear cushion.

Technical data are subject to change without prior notice

SPECIFICATIONS	D 900 (E)*	D 800 (E)*
<b>head phone</b>		
frequency response .....	10 Hz to 34 kHz	40 Hz to 14.4 kHz
impedance .....	400 Ω system	400 Ω system
sound pressure level .....	≥94 dB	≥94 dB
power handling .....	100 mW	100 mW
suppression of		
environmental noise .....	ca. 25 dBA	ca. 16 dBA
weight (w/o cable) .....	350 g (220 g "E")	270 g (200 g "E")
cable length .....	1.8 m	1.5 m
ear cushion .....	"circumaural" skin friendly antiseptic surface	
<b>microphone</b>		
frequency response .....	40 Hz to 15 kHz	40 Hz to 15 kHz
directional pattern .....	cardioid	cardioid
impedance .....	100 Ω (200 Ω) bal.	100 Ω (200 Ω) bal.
output voltage at		
5 cm distance .....	≈1 mV/Pa (≈3 mV/Pa)	≈3 mV/Pa
pivot angle .....	300°	—
connectors .....	4 pin XLR-F	